

Title (en)
MODIFIED CONJUGATED DIENE-BASED POLYMER, METHOD FOR PRODUCING SAME, AND RUBBER COMPOSITION COMPRISING SAME

Title (de)
MODIFIZIERTES KONJUGIERTES DIENBASIERTES POLYMER, VERFAHREN ZUR HERSTELLUNG DAVON UND
KAUTSCHUKZUSAMMENSETZUNG DAMIT

Title (fr)
POLYMERÈ À BASE DE DIÈNE CONJUGUÉ MODIFIÉ, SON PROCÉDÉ DE PRODUCTION, ET COMPOSITION DE CAOUTCHOUC LE
COMPRENANT

Publication
EP 3919532 A4 20220427 (EN)

Application
EP 20872699 A 20200929

Priority
• KR 20190121197 A 20190930
• KR 2020013373 W 20200929

Abstract (en)
[origin: EP3919532A1] The present invention relates to a modified conjugated diene-based polymer and a rubber composition including the same, and relates to a modified conjugated diene-based polymer which may have a mooney large relaxation area of 1500 MU-s or more, and has a high molecular weight and low mooney viscosity after being compounded into a rubber composition, and accordingly, has excellent processability during manufacturing a tire, good physical properties such as tensile properties, and excellent viscoelasticity properties, a method for preparing the same and a rubber composition including the same.

IPC 8 full level
C08F 236/04 (2006.01); **B60C 1/00** (2006.01); **C08C 19/22** (2006.01); **C08C 19/25** (2006.01); **C08C 19/44** (2006.01); **C08F 236/10** (2006.01); **C08L 15/00** (2006.01)

CPC (source: CN EP KR US)
C08C 19/22 (2013.01 - EP US); **C08C 19/25** (2013.01 - EP US); **C08C 19/44** (2013.01 - EP); **C08F 8/08** (2013.01 - CN KR); **C08F 8/30** (2013.01 - CN KR); **C08F 8/42** (2013.01 - CN KR); **C08F 236/04** (2013.01 - CN KR); **C08F 236/10** (2013.01 - CN KR); **C08K 3/36** (2013.01 - EP); **C08K 9/06** (2013.01 - EP); **C08L 9/00** (2013.01 - CN KR); **C08L 9/06** (2013.01 - CN KR); **C08L 15/00** (2013.01 - CN EP KR US); **C08L 47/00** (2013.01 - CN KR)

C-Set (source: CN EP)
CN

C08F 8/08 + C08F 8/30 + C08F 8/42 + C08F 236/10

EP

1. **C08F 236/10 + C08F 4/48**
2. **C08F 236/06 + C08F 212/08**
3. **C08K 3/36 + C08L 15/00**
4. **C08L 15/00 + C08L 91/00 + C08L 45/00 + C08L 91/06 + C08K 3/36 + C08K 3/04 + C08K 5/548 + C08K 3/22 + C08K 5/09 + C08K 3/06 + C08K 5/18 + C08K 5/31 + C08K 5/47**
5. **C08K 9/06 + C08L 15/00**

Citation (search report)
• [X] JP 2012107141 A 20120607 - SUMITOMO RUBBER IND
• [X] US 9527932 B2 20161227 - MORITA HIROYUKI [JP], et al
• [X] US 8642705 B2 20140204 - OZAWA YUICHI [JP], et al
• See also references of WO 2021066543A1

Cited by
EP3889194A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3919532 A1 20211208; EP 3919532 A4 20220427; BR 112021019677 A2 20220503; CN 113574076 A 20211029; CN 113574076 B 20240719; JP 2022520984 A 20220404; JP 2023059976 A 20230427; JP 7540849 B2 20240827; KR 102527753 B1 20230503; KR 20210038389 A 20210407; SG 11202110157R A 20211028; TW 202128798 A 20210801; US 2022127438 A1 20220428; WO 2021066543 A1 20210408

DOCDB simple family (application)
EP 20872699 A 20200929; BR 112021019677 A 20200929; CN 202080021904 A 20200929; JP 2021548573 A 20200929; JP 2023027669 A 20230224; KR 20200126985 A 20200929; KR 2020013373 W 20200929; SG 11202110157R A 20200929; TW 109133949 A 20200929; US 202017438591 A 20200929